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APPLICATION NO.	FILING DAT	E FIRST NAMED INV	ENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/084,184	02/28/200	2 Masayuki Miya	moto	1248-0579P	4910	
2292	7590 03/03/2005			EXAMINER		
BIRCH ST	EWART KOLA		CHOE, HENRY			
PO BOX 747 FALLS CHURCH, VA 22040-0747				ART UNIT	PAPER NUMBER	
111220 011	THEE CHORCH, VII 22010 0717			2817		
				DATE MAILED: 03/03/2005		

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)				
	10/084,184	MIYAMOTO, MASAYUKI				
Office Action Summary	Examiner	Art Unit				
	Henry K. Choe	2817				
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply						
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).						
Status						
1) Responsive to communication(s) filed on 13 D	Responsive to communication(s) filed on <u>13 December 2004</u> .					
2a) ☐ This action is FINAL . 2b) ☑ This	This action is FINAL. 2b)⊠ This action is non-final.					
	Since this application is in condition for allowance except for formal matters, prosecution as to the ments is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.					
Disposition of Claims						
4) Claim(s) 1-54 is/are pending in the application. 4a) Of the above claim(s) 3-9,11-17,19-44 and 46-54 is/are withdrawn from consideration. 5) Claim(s) is/are allowed. 6) Claim(s) 1,2,10,18 and 45 is/are rejected. 7) Claim(s) is/are objected to. 8) Claim(s) are subject to restriction and/or election requirement.						
Application Papers						
9) The specification is objected to by the Examiner.						
10) ☐ The drawing(s) filed on is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.						
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).						
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.						
Priority under 35 U.S.C. § 119						
12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received.						
Attachment(s) 1) Notice of References Cited (PTO-892) 4) Interview Summary (PTO-413)						
 Notice of References Cited (PTO-892) Notice of Draftsperson's Patent Drawing Review (PTO-948) 	Paper No(s)/Mail Da	nte				
3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date	5) Notice of Informal P 6) Other:	atent Application (PTO-152)				

DETAILED ACTION

Drawings

The drawings are objected to under 37 CFR 1.83(a). The drawings must show every feature of the invention specified in the claims. Therefore, the common operation control voltages must be shown or the feature(s) canceled from the claim(s). No new matter should be entered.

Corrected drawing sheets in compliance with 37 CFR 1.121(d) are required in reply to the Office action to avoid abandonment of the application. Any amended replacement drawing sheet should include all of the figures appearing on the immediate prior version of the sheet, even if only one figure is being amended. The figure or figure number of an amended drawing should not be labeled as "amended." If a drawing figure is to be canceled, the appropriate figure must be removed from the replacement sheet, and where necessary, the remaining figures must be renumbered and appropriate changes made to the brief description of the several views of the drawings for consistency. Additional replacement sheets may be necessary to show the renumbering of the remaining figures. Each drawing sheet submitted after the filing date of an application must be labeled in the top margin as either "Replacement Sheet" or "New Sheet" pursuant to 37 CFR 1.121(d). If the changes are not accepted by the examiner, the applicant will be notified and informed of any required corrective action in the next Office action. The objection to the drawings will not be held in abeyance.

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Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

Claims 1, 2, 10, 18 and 45 are rejected under 35 U.S.C. 102(e) as being anticipated by Ezell (Figs. 1, 3, 4).

Regarding claim 1, Ezell (Figs. 1, 3, 4) discloses an amplifier circuit comprising an amplifying transistor (IQ1), and a current path control section (Mn1, Mn2, Mn3) which controls a size of the amplifying transistor (IQ1) and a path (a current is going from the Vc to 1Re through the amplifying transistor IQ1) of a current through the amplifying transistor (IQ1).

Regarding claim 2, the current path control section (Mn1, Mn2, Mn3) includes a current control transistor (Mn1), and the variable gain amplifier includes a plurality of unit circuits (IQ1 and Mn1; IQ2 and Mn2) which are disposed parallel to one another and each (IQ1 and Mn1) having the amplifying transistor (IQ1) and the current control transistor (Mn1) and the unit circuits (IQ1 and Mn1; IQ2 and Mn2) being connected to one another through signal inputs (IN+, IN-) and signal outputs (OUT-, OUT+) of the unit circuits (IQ1 and Mn1; IQ2 and Mn2).

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Regarding claims 10 and 18, wherein each unit circuit (IQ1 and Mn1) includes a switch control circuit (Vn1 and a gate terminal of transistor Mn1) which switches level of operation control voltage (Vn1 is high or low) for the current control transistor (Mn1).

Regarding claim 45, the current path control section (Mn1, Mn2, Mn3) varies a size (it depends on how many transistors are ON among transistors Mn1, Mn2, Mn3) of the amplifying transistor (IQ1).

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Henry Choe whose telephone number is (571) 272-. 1760.

HENRY CHOE PRIMARY EXAMINER